This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/055,210	0	1/23/2002	Clark TC. Nguyen	UOM 0205 PUSP 5046		
22045	7590	10/07/2003		EXAMINER		
BROOKS I			CHAPMAN JR, JOHN E			
TWENTY-SECOND FLOOR				ART UNIT	PAPER NUMBER	
SOUTHFIEI	LD, MI 4	8075		2856		
				DATE MAILED: 10/07/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

				<i>\</i>
•		Application No.	Applicant(s)	
، 'ن		10/055,210	NGUYEN ET AL.	
	Office Action Summary	Examin r	Art Unit	
		John E Chapman	2856	
Period f	The MAILING DATE of this communication aported or Reply	pears on the cover sheet with	the correspondence address	
THE - External control	HORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1. r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a repoly within the statutory minimum of thirty (I will apply and will expire SIX (6) MONTHE, cause the application to become ABA	y be timely filed 30) days will be considered timely. IS from the mailing date of this communication IDONED (35 U.S.C. § 133).	.
1)⊠	Responsive to communication(s) filed on <u>07</u>	<u>August 2003</u> .		
2a)⊠	This action is FINAL . 2b) T	his action is non-final.		
3)□ Disposit	Since this application is in condition for allow closed in accordance with the practice undetion of Claims			S
	Claim(s) <u>1-3,5-14,16-22 and 27-30</u> is/are per	nding in the application.		
,	4a) Of the above claim(s) is/are withdra	• ,,		
5)□	Claim(s) is/are allowed.			
·	Claim(s) <u>1-3,5-14,16-22 and 27-30</u> is/are reje	cted.		
·	Claim(s) is/are objected to.			
8)□	Claim(s) are subject to restriction and/	or election requirement.		
	ion Papers			
9)[The specification is objected to by the Examin-	er.		
10)	The drawing(s) filed on is/are: a)☐ acce	epted or b)□ objected to by the	Examiner.	\
_	Applicant may not request that any objection to the		• •	``
11)	The proposed drawing correction filed on	_ is: a)□ approved b)□ dis	approved by the Examiner.	
	If approved, corrected drawings are required in re	• •		
•	The oath or declaration is objected to by the E	xaminer.		
Priority	under 35 U.S.C. §§ 119 and 120			
13)[Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	l 19(a)-(d) or (f).	
a)	☐ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority document	its have been received.		
	2. Certified copies of the priority documen	ts have been received in App	olication No	
* (3. Copies of the certified copies of the price application from the International B See the attached detailed Office action for a lis	ureau (PCT Rule 17.2(a)).	•	
	Acknowledgment is made of a claim for domes	•		on).
_ 6	a) The translation of the foreign language pr Acknowledgment is made of a claim for domes	ovisional application has bee	n received.	· •
Attachmer	-	,	,	
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Infe	mmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)	

Application Number: 10/055,210

Art Unit: 2856

دیکا د

DETAILED ACTION

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

- 2. Claim 1 is objected to because of the following informalities: In line 7, "dive" should be changed to --drive--. Appropriate correction is required.
- 3. Claims 1-3, 5-14, 16-22 and 27-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is not clear what elements are being claimed. Claim 1 recites a first resonator, a second resonator, and a means for coupling the resonators so that the apparatus has a filter response in a sense mode with a substantially constant amplitude region for a passband of frequencies. The specification, however, describes four resonators, namely two drive resonators 54 and two platform resonators 64. The platform resonators 64 are coupled by a mechanical spring or coupling beam 58 (page 11, lines 17-18) in order to achieve the desired filter spectrum (page 12, lines 19-20). Thus, it appears that the first and second resonators as claimed correspond to the platform resonators 64. However, claim 1 also recites that first resonator "vibrates along a second axis at a reference vibration and generates a Coriolis force which causes the second resonator to vibrate along a third axis at an induced vibration." One platform resonator 64 is not driven along a second axis so as to cause the second platform resonator 64 to vibrate along a third

Application Number: 10/055,210

Art Unit: 2856

axis at an induced vibration. Rather, a first drive resonator 54 is driven along a second axis (x) so as to cause a first platform resonator 64 to vibrate along a third axis (y) at an induced vibration (page 12, line 22 to page 13, line 6). Accordingly, it is not clear which resonators are being claimed. It would appear that three resonators should be claimed, two "platform" resonators coupled so that the apparatus has a filter response in a sense mode with a substantially constant amplitude region for a passband of frequencies, and one "drive" resonator which vibrates along the second axis at a reference vibration and generates a Coriolis force which causes one of the platform resonators to vibrate along the third axis.

Likewise for claims 2, 3, 5-14, 16-22 and 27-30.

Claims 8 and 19 merely set forth a desired result without providing any step for achieving the desired result. Furthermore, whether Q-multiplication is attained appears to a relative term, and it is not clear that the invention attains Q-multiplication. Note page 9, lines 19-25.

Regarding claims 11 and 22, the term "wide" is a relative term which renders the claim indefinite. The term "wide" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

4. Claims 1-3, 5-14, 16-22 and 27-30 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action. In particular, claims 1 and 12 would be allowable if amended to make clear that three resonators are being recited.

Application Number: 10/055,210

Art Unit: 2856

Page 4

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of

time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR

1.136(a) will be calculated from the mailing date of the advisory action. In no event, however,

will the statutory period for reply expire later than SIX MONTHS from the mailing date of this

final action.

6. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Mr. Chapman whose telephone number is (703) 305-4920.

Any inquiry of a general nature or relating to the status of this application should be

directed to the Group receptionist whose telephone number is (703) 308-0956.

JOHN E. CHAPMAN